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PRECISION ALLOY RODS AND WIRES



精密合金棒线



宁波金田铜业（集团）股份有限公司
NINGBO JINTIAN COPPER (GROUP) CO., LTD.

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宁波金田铜业（集团）股份有限公司
NINGBO JINTIAN COPPER (GROUP) CO., LTD.

BRIEF INTRODUCTION

企业简介

宁波金田铜业（集团）股份有限公司——高精度棒线分公司是金田集团创始企业，创建于1986年，是一家以铜加工为主的中国500强企业，也是国内最大的再生铜加工利用企业，目前已成为中国铜加工行业的龙头企业。公司占地130多万平方米，经过三十余年的发展，公司产业涵盖铜加工、高新材料、有色金属贸易等领域。

高精度棒线分公司致力于普黄铜、铅黄铜、无铅黄铜、复杂黄铜、铬锆铜、锡青铜、紫铜等高性能、高精度有色金属合金材料的研发与生产。牌号集国标、日标、美标、德标、欧标等于一体，品种适用于铆压加工、快削加工、锻造加工、冷冲加工等制造工艺。所有产品均符合欧盟环保标准，并适用于自动车床精密加工，广泛应用于航空航天、汽车、通讯、电子、家用电器、精密磨具、工程机械、卫

浴、民用五金及焊接材料等多个领域。

公司通过系列质量体系认证，依托集团公司，聚一流人才，出一流产品，创一流企业。在未来的日子里，公司将以优质的产品，优质的品牌，优良的服务，与新老客户精诚合作，同谋发展，共创辉煌！

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NINGBO JINTIAN COPPER (GROUP) CO., LTD---HIGH PRECISION WIRE&ROD BRANCH established in 1986, is an initiatory company of Ningbo Jintian Copper (Group) Co., Ltd, which is listed among the Chinese top 500 enterprises, majoring in the copper-processing, and we are also the largest enterprise using the regenerative copper material. We are covering an area of much more than 1,300,000m². Through more than 30 years efforts, the major industries of Jintian Group include copper processing, high-tech materials, non-ferrous metal trading, etc.

HIGH PRECISION WIRE&ROD BRANCH, specializes in ordinary brass rods & wires, lead brass rods & wires, lead free brass rods & wires, complex brass rods & wires, chromium zirconium brass, bronze rods & wires, copper rods & wires, as well as research and manufacture copper alloy with high performance and precision. We can produce all kinds of copper alloy according to different standards (GB, JIS, ASTM, DIN, EN, etc.). Our products are suitable for many manufacturing techniques, such as riveting pressure, free cutting, forging processing, cold punching, etc. All copper alloys are in accordance with the EN

environmental protection standard, and widely used in the aerospace, automobile, telecommunication, electronics, home appliances, precision mould, engineering machinery, bathroom, civil hardware, welding material, etc.

With the supporting from the Group Corporation, we have passed many certificates of quality system, gathered lots of talents, and we are making first class products, creating the first class enterprise. In the coming days, we will keep persisting high quality, strong brand, professional service for the purpose of sincere cooperation, creating joint development and prosperity with all of the honored old & new cooperators.



国家重点高新技术企业
国家级企业技术中心
国家级实验室

National Level High-tech Enterprise
National Level Enterprise Technology Center
National Level Laboratory



ENTERPRISE'S HONOR

企业荣誉

精益生产，品质为先。专门的质检机构，专业的检测中心，先进的测试设备，为金田集团构建起了科学完善的质量控制体系。金田集团已通过 ISO9001:2008 质量认证、ISO14001:2004 环境认证和 OHSAS18001:2007 职业健康安全管理体系认证，并获得了 UL、ASTM、EN、TUV 等国际认证。

Keep meliorating in the production. Quality is above all. The Specialized QC department, the professional test center, the advanced test equipment have provided us scientific and perfect quality system. We have been ISO9001:2008 certified for quality, ISO14001:2004 certified for environment protection, and OHSAS 18001:2007 certified for occupation health & safe management. Furthermore, we have attained international approvals including UL, ASTM, EN, TUV certifications, etc.



PRODUCTION STRENGTH MODERN EQUIPMENT

生产实力，现代设备

努力创造第一，全心打造一流。
走精益生产之路，尽全力消除浪费。
Strive for creating the first, work hard to build
top grade. Process efficiently and precisely to
eliminate waste.



PRODUCTION STRENGTH AND EQUIPMENT

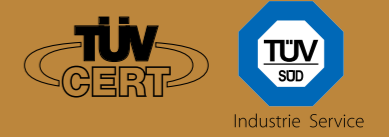
生产实力及设备



精良的制造工艺，一流的设备装置
不懈的追求，开创恒久的辉煌。
Advanced production technology, first-class
production equipments untiring pursuing,
initiate permanent resplendence.

QUALITY ASSURANCE

品质保证



PRODUCT INTRODUCTION

产品简介



普黄铜线 COIL BRASS WIRE

空调阀门配件及自行车辐条帽，对冷墩和切削要求较高的配件等。
Suitable to be made into valve fittings, spoke caps and other parts with high requirements on the cold punching and free cutting processing.



易切削黄铜 FREE CUTTING BRASS

适用于自动车床、数控车床加工产品，如五金件、电器接插件、连接器等。
Applicable for automatic lathe, CNC lathe machined products, such as the hardware, electrical plugs, connectors, etc.



铅黄铜 LEAD BRASS

适用于以热冲和切削加工制作的各种结构零件，如螺钉、螺帽、垫圈、垫片、衬套、喷嘴等。
Used in spare parts which need hot punching and free cutting processing, such as bolts, screw caps, gaskets, linings, etc.



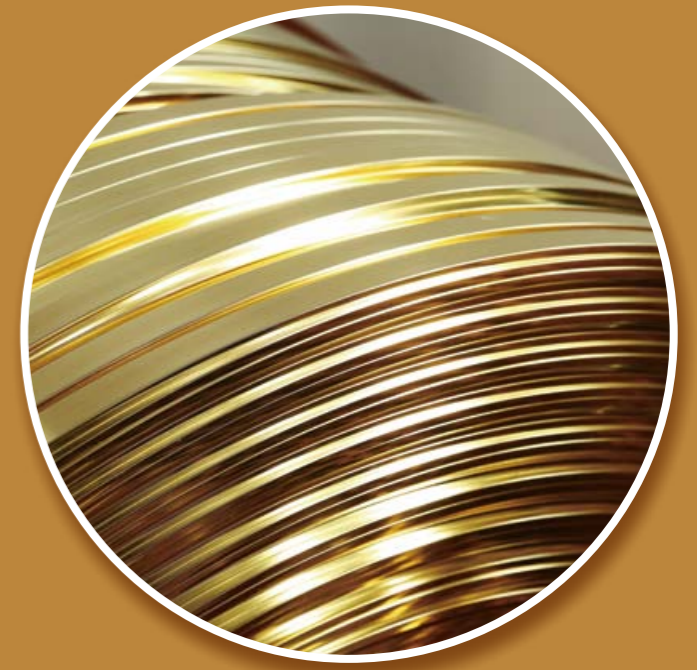
黄铜扁线 BRASS FLAT WIRE

适用于各种深引伸和弯折制造的受力零件，如弹簧、拉链等。
Used in a lot of deep-drawability parts, such as springs, zippers, etc.

KEEP IMPROVING

精益求精

营造国际品牌，构筑百年企业。
Elevate an International Brand
Construct a Centenary Enterprise.



PRODUCT INTRODUCTION

产品简介



LEAD BRASS

铅黄铜



FREE CUTTING BRASS

易切削黄铜

牌号 Alloy Grade	Cu	Pb	Al	Fe (max)	Sn	Zn	杂质 Impurity Total
HPb63-3	62.0-65.0	2.4-3.0	-	0.1	-	REM	0.75
HPb63-0.1	61.5-63.5	0.05-0.3	-	0.15	-	REM	0.5
HPb62-2	60.0-63.0	1.5-2.5	-	0.15	-	REM	0.65
HPb60-3	58.0-61.0	2.5-3.5	-	0.3	0.3	REM	0.8
HPb59-1	57.0-60.0	0.8-1.9	-	0.5	-	REM	1.0
HPb58-3	57.0-59.0	2.5-3.5	-	0.5	0.5	REM	1.0
HPb57-4	56.0-58.0	3.5-4.5	-	0.5	0.5	REM	1.2
C3601	59.0-63.0	1.8-3.7	-	0.3	Fe+Sn:0.5	REM	-
C3602	59.0-63.0	1.8-3.7	-	0.5	Fe+Sn:1.0	REM	-
C3603	57.0-61.0	1.8-3.7	-	0.35	Fe+Sn:0.6	REM	-
C3604	57.0-61.0	1.8-3.7	-	0.5	Fe+Sn:1.0	REM	-
C3605	56.0-60.0	3.5-4.5	-	0.5	Fe+Sn:1.0	REM	-
CW602N	61.0-63.0	1.7-2.8	0.05	0.1	0.1	REM	Ni 0.3 others total 0.2
CW614N	57.0-59.0	2.5-3.5	0.05	0.3	0.3	REM	Ni 0.3 others total 0.2
CW617N	57.0-59.0	1.6-2.5	0.05	0.3	0.3	REM	Ni 0.3 others total 0.2
C36000	60.0-63.0	2.5-3.0	-	0.35	-	REM	-
C36010	60.0-63.0	3.1-3.7	-	0.35	-	REM	-

用途

适用于以热冲和切削加工制作的各种结构零件，如螺钉、垫圈、垫片、衬套、螺帽、喷嘴等。

主要特性

应用最广泛，具有良好的切割和机械性能，能承受冷、热压力加工，易钎焊和焊接，有良好的耐腐蚀性。

USAGE

Used in spare parts with hot-drawability and cutting manufacturing techniques, such as bolts, shims, screw caps, gaskets, linings, etc.

THE MAIN CHARACTERISTICS

With excellent machinability, good performance in cutting, good corrosion resistance, and with good processing in cold & hot working, easy to joint and braze.

状态 Temper : M , Y2 , Y
生产范围 Production range
直径 Diameter : Φ2mm~Φ100mm
长度 Length : 2m-4.5m

牌号 Alloy Grade	Cu	Pb	Al	Fe(max)	Sn	Zn	杂质 Impurity Total
C3601	59.0-63.0	1.8-3.7	-	0.3	Fe+ Sn:0.5	REM	-
C3602	59.0-63.0	1.8-3.7	-	0.5	Fe+ Sn:1.0	REM	-
C3603	57.0-61.0	1.8-3.7	-	0.35	Fe+ Sn:0.6	REM	-
C3604	57.0-61.0	1.8-3.7	-	0.5	Fe+ Sn:1.0	REM	-
C3605	56.0-60.0	3.5-4.5	-	0.5	Fe+ Sn:1.0	REM	-

USAGE

Widely used in automatic lathe, CNC lathe machined products, such as the hardware, electrical plugs, connectors, etc.

THE MAIN CHARACTERISTICS

Excellent cutting & drilling performance, suitable in a variety of processing method like hot forging, cold heading, riveting, high strength, high toughness & corrosion resistance, anti-tarnish.

用途

适用于自动车床，数控车床加工产品，如五金件、电器接插件、联接件等。

主要特性

具有极好的切削、钻孔性能，并可适应热锻、冷锻、铆接等各种加工方式。强度高，韧性好，耐腐蚀防变色性强。

状态 Temper : M , Y2 , Y
生产范围 Production range
直径 Diameter : Φ2mm~Φ100mm
长度 Length : 2m-4.5m

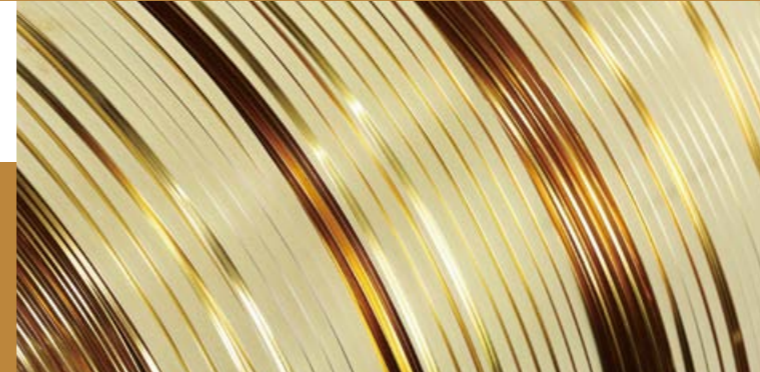
PRODUCT INTRODUCTION

产品简介



ORDINARY BRASS

普黄铜



FLAT BRASS WIRE

普黄铜扁线

牌号 Alloy Grade	Cu	Pb	Al	Fe(max)	Sn	Zn	杂质 Impurity Total
H80	78.5-81.5	0.05	-	0.05	-	REM	0.3
H70	68.5-71.5	0.03	-	0.1	-	REM	0.3
H68	67.0-70.0	0.03	-	0.1	-	REM	0.3
H65	63.0-68.5	0.09	-	0.07	-	REM	0.45
H63	62.0-65.0	0.08	-	0.15	-	REM	0.5
H62	60.5-63.5	0.08	-	0.15	-	REM	0.5
H59	57.0-60.0	0.5	-	0.3	-	REM	1.0
C2600	68.5-71.5	0.05	-	0.05	-	REM	-
C2700	63.0-67.0	0.05	-	0.05	-	REM	-
C2720	62.0-64.0	0.07	-	0.07	-	REM	-
C2800	59.0-63.0	0.1	-	0.07	-	REM	-

USAGE

Used in a lot of deep-drawability parts, such as hardware, radiator parts, springs, bolts, rivets and machine parts, etc.

THE MAIN CHARACTERISTICS

Excellent cold processing plasticity, high elasticity and strength.

用途

适用于各种深引伸和弯折制造的受力零件，如销钉、铆钉、垫圈、螺帽、导管、散热器零件等。

主要特性

有良好的冷加工塑性，高弹性，高强度。

状态 Temper : M , Y2 , Y , Y4
生产范围 Production range
线材 Wire : Φ 2mm- Φ 12.0mm
棒材 Rod : Φ 2.0mm- Φ 60mm
直径 Diameter : 2mm-100mm
长度 Length : 2m-3.5m

牌号 Alloy Grade	Cu	Pb	Al	Fe(max)	Sn	Zn	杂质 Impurity Total
H70	68.5-71.5	0.03	-	0.1	-	REM	0.3
H68	67.0-70.0	0.03	-	0.1	-	REM	0.3
H65	63.0-68.5	0.09	-	0.07	-	REM	0.45
H63	62.0-65.0	0.08	-	0.15	-	REM	0.5
H62	60.5-63.5	0.08	-	0.15	-	REM	0.5

USAGE

Used in a lot of deep-drawability parts, such as springs, and machine parts, zipper etc.

THE MAIN CHARACTERISTICS

With excellent machinability, cold plasticity, hot plasticity, free cutting and resistance to corrosion, it is easy to joint and braze.

状态 Temper : M , Y1,Y2 , Y
生产范围 Production range
厚度 Thickness : 0.6mm-2.0mm
宽度 Width : 3mm-10mm

用途

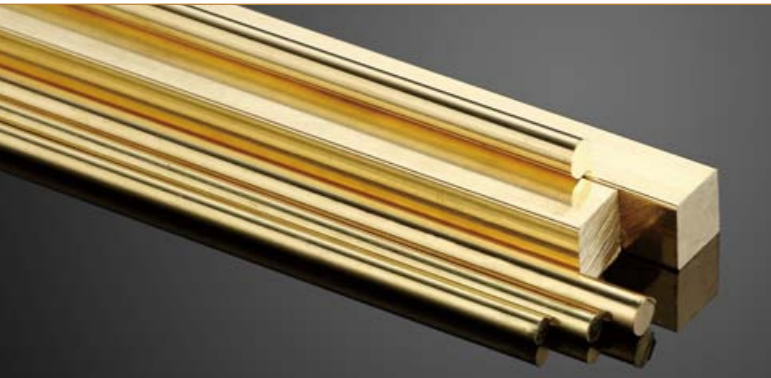
适用于各种深引伸和弯折制造的受力零件，如气压表弹簧、散热器零件、拉链等民用产品。

主要特性

具有良好的机械性能，热状态下塑性好，冷状态下塑性也可以，切削性好，易钎接和焊接，耐腐蚀，但易产生腐蚀破裂。

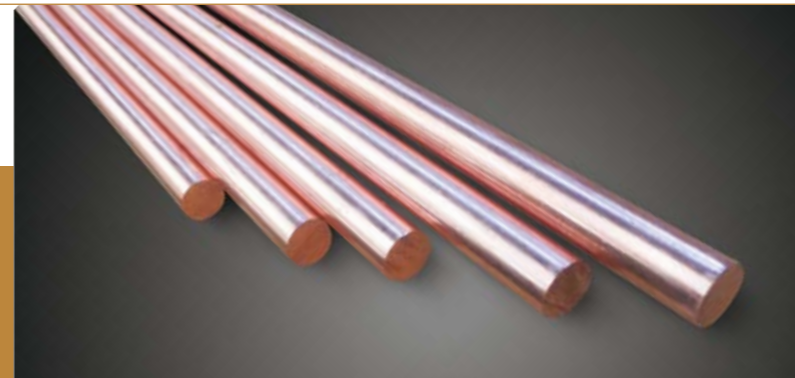
PRODUCT INTRODUCTION

产品简介



LEAD FREE BRASS

无铅黄铜



COPPER ROD

紫铜

牌号 Alloy Grade	Cu	Pb	Al	Fe(max)	Sn	Zn	杂质 Impurity Total
HBi60-2	59.0-62.0	0.1	Bi 2.0-3.5 Cd 0.01	0.2	0.3	REM	0.5
HBi60-1.3	58.0-62.0	0.2	Bi 0.3-2.3 Cd 0.01	0.1	0.05-1.2	REM	0.3
HBi59-1	58.0-60.0	0.1	Bi 0.8-2.0 Cd 0.01	0.2	0.2	REM	0.5
HSn62-1	61.0-63.0	0.1	-	0.1	0.7-1.1	REM	0.3
HSn60-1	59.0-61.0	0.3	-	0.1	1.0-1.5	REM	1.0

USAGE

Widely used in instrumentation, electronics, electrical appliances, daily hardware, drinking water systems and other fields.

THE MAIN CHARACTERISTICS

With good mechanical and physical properties, good cold & hot working, and free cutting performance.

用途

广泛地应用于仪器仪表、电子、电器、日用五金、饮用水系统等领域。

主要特性

具有较好的机械性能和物理性能,以及良好的冷、热加工性能和切削性。

状态 Temper : Y2
生产范围 Production rang
直径 Diameter : Φ2.5mm-Φ25mm
长度 Length : 2m-4.5m

牌号 Alloy Grade	Cu+Ag	P	Bi	Sb	As	Fe	Ni	Pb	Sn	S	Zn	O
Tu1	99.97	0.002	0.001	0.002	0.002	0.004	0.002	0.003	0.002	0.004	0.003	0.002
Tu2	99.95	0.002	0.001	0.002	0.002	0.004	0.002	0.004	0.002	0.004	0.003	0.003
T1	99.95	0.001	0.001	0.002	0.002	0.005	0.002	0.003	0.002	0.005	0.005	0.02
T2	99.9	-	0.001	0.002	0.002	0.005	-	0.005	-	0.005	-	-

USAGE

Used in electric Appliance, power panel etc.

THE MAIN CHARACTERISTICS

High electric conductivity.

状态 Temper : M , Y2 , Y
生产范围 Production range
直径 Diameter : Φ2mm-Φ40mm
长度 Length : 2m-4.5m

用途

适用于电器、电力机柜等。

主要特性

导电性能佳。

PRODUCT INTRODUCTION

产品简介



BRONZE

锡青铜



CUCRZR

铬锆铜

牌号 Alloy Grade	Cu	Pb	Al	Fe	Sn	Zn	P	杂质 Impurity Total
QSn6.5-0.1	REM	≤ 0.02	≤ 0.002	≤ 0.05	6.0~7.0	≤ 0.3	0.10~0.25	≤ 0.4
QSn6.5-0.4	REM	≤ 0.02	≤ 0.002	≤ 0.02	6.0~7.0	≤ 0.3	0.26~0.40	≤ 0.4
QSn7-0.2	REM	≤ 0.02	≤ 0.01	≤ 0.05	6.0~8.0	≤ 0.3	0.10~0.25	≤ 0.45
QSn5-0.2	REM	≤ 0.05	-	≤ 0.1	4.2~5.8	≤ 0.3	0.03~0.35	≤ 0.95
C54400	REM	3.0-4.0	-	≤ 0.1	3.5-4.5	1.5-4.5	0.01-0.5	-

USAGE

Good conductive spring contact piece or spring, aviation altimeter, lifting speed indicator spring, connecting bar, shims, small shaft, ripple tube, precision instrument gear, brush box, connectors.

THE MAIN CHARACTERISTICS

High strength, good hardness, abrasive resistance, good elasticity, no spark, corrosion resistance, nonmagnetic, excellent cold working performance, and with excellent electroplating and welding performance.

用途

适用于导电良好的弹簧接触片或弹簧, 航空高度表、升降速度表弹簧、连杆、垫圈、小轴、波纹管, 精密仪器齿轮、电刷盒、接触器。

主要特性

高强度, 硬度好, 耐磨性, 弹性好, 无火花, 耐腐蚀性, 无磁性, 优良的冷加工性能, 具有优良的电镀, 及焊接性能。

状态 Temper: Y,M,Y4,Y2,Y1
生产范围 Production rang
线材 Wire : Φ0.1mm-Φ8.5mm
棒材 Rod : Φ2mm-Φ40mm

牌号 Alloy Grade	Cu	Zr	Cr	Fe	杂质 Impurity Total
C18150	REM	0.05~0.25	0.5~1.5	—	0.3
T18160	REM	0.05~0.30	0.5~1.5	0.10	0.3
T18170	REM	0.3~0.6	0.4~1.8	0.05	0.5
C18200	REM	—	0.6~1.2	0.10	0.75

USAGE

Electrode contact material, spot welding electrodes, electrode grip, electrode holder, resistance welding electrodes and equipment components, welder molds and fixtures, seam welding wheel, EDM electrode, soldering iron tops, etc.

THE MAIN CHARACTERISTICS

With high electrical and thermal conductivity, good strength and hardness, heating-resistance, wear-resisting, anti-deformation ability.

状态 Temper : Th04
生产范围 Production rang
直径 Diameter : Φ4mm-Φ40mm

用途

适用于电极的触头材料, 电焊电极, 电极握杆, 电极座, 电阻焊电极及设备部件, 凸焊机磨具和夹具, 缝焊轮, 电火花放电电极, 烙铁头等。

主要特性

具有高导电性和导热性, 良好的强度和硬度, 且耐热耐磨, 防变形能力强。

CHEMISTRY COMPONENT&STANDARD

产品化学成份 & 标准

产品名称 Product Name	牌号 Alloy Grade	化学成分 (不大于, %) Chemistry Component (No More Than,%)						
		Cu	Pb	Al	Fe(max)	Sn	Zn	杂质 Impurity Total
普通黄铜 Ordinary Brass	H80	78.5-81.5	0.05	-	0.05	-	REM	0.3
	H70	68.5-71.5	0.03	-	0.1	-	REM	0.3
	H68	67.0-70.0	0.03	-	0.1	-	REM	0.3
	H65	63.0-68.5	0.09	-	0.07	-	REM	0.45
	H63	62.0-65.0	0.08	-	0.15	-	REM	0.5
	H62	60.5-63.5	0.08	-	0.15	-	REM	0.5
	H59	57.0-60.0	0.5	-	0.3	-	REM	1.0
	C2600	68.5-71.5	0.05	-	0.05	-	REM	-
	C2700	63.0-67.0	0.05	-	0.05	-	REM	-
	C2720	62.0-64.0	0.07	-	0.07	-	REM	-
	C2800	59.0-63.0	0.1	-	0.07	-	REM	-
	铅黄铜 Lead Brass	HPb63-3	62.0-65.0	2.4-3.0	-	0.1	-	REM
HPb63-0.1		61.5-63.5	0.05-0.3	-	0.15	-	REM	0.5
HPb62-2		60.0-63.0	1.5-2.5	-	0.15	-	REM	0.65
HPb60-3		58.0-61.0	2.5-3.5	-	0.3	0.3	REM	0.8
HPb59-1		57.0-60.0	0.8-1.9	-	0.5	-	REM	1.0
HPb58-3		57.0-59.0	2.5-3.5	-	0.5	0.5	REM	1.0
HPb57-4		56.0-58.0	3.5-4.5	-	0.5	0.5	REM	1.2
C3601		59.0-63.0	1.8-3.7	-	0.3	Fe+ Sn:0.5	REM	-
C3602		59.0-63.0	1.8-3.7	-	0.5	Fe+ Sn:1.0	REM	-
C3603		57.0-61.0	1.8-3.7	-	0.35	Fe+ Sn:0.6	REM	-
C3604		57.0-61.0	1.8-3.7	-	0.5	Fe+ Sn:1.0	REM	-
C3605		56.0-60.0	3.5-4.5	-	0.5	Fe+ Sn:1.0	REM	-
CW602N		61.0-63.0	1.7-2.8	0.05	0.1	0.1	REM	Ni0.3 others total 0.2
CW614N		57.0-59.0	2.5-3.5	0.05	0.3	0.3	REM	Ni 0.3 others total 0.2
CW617N		57.0-59.0	1.6-2.5	0.05	0.3	0.3	REM	Ni 0.3 others total 0.2
C36000		60.0-63.0	2.5-3.0	-	0.35	-	REM	-
C36010		60.0-63.0	3.1-3.7	-	0.35	-	REM	-
易切削黄铜 Free Cutting Brass		C3601	59.0-63.0	1.8-3.7	-	0.3	Fe+ Sn:0.5	REM
	C3602	59.0-63.0	1.8-3.7	-	0.5	Fe+ Sn:1.0	REM	-
	C3603	57.0-61.0	1.8-3.7	-	0.35	Fe+ Sn:0.6	REM	-
	C3604	57.0-61.0	1.8-3.7	-	0.5	Fe+ Sn:1.0	REM	-
	C3605	56.0-60.0	3.5-4.5	-	0.5	Fe+ Sn:1.0	REM	-
无铅黄铜 Lead Free Copper	HBi60-2	59.0-62.0	0.1	Bi 2.0-3.5 Cd 0.01	0.2	0.3	REM	0.5
	HBi60-1.3	58.0-62.0	0.2	Bi 0.3-2.3 Cd 0.01	0.1	0.05-1.2	REM	0.3
	HBi59-1	58.0-60.0	0.1	Bi 0.8-2.0 Cd 0.01	0.2	0.2	REM	0.5
	HSn62-1	61.0-63.0	0.1		0.1	0.7-1.1	REM	0.3
	HSn60-1	59.0-61.0	0.3		0.1	1.0-1.5	REM	1.0

产品名称 Product Name	牌号 Alloy Grade	化学成分 (不大于, %) Chemistry Component (No More Than,%)						
		Cu	Pb	Al	Fe(max)	Sn	Zn	杂质 Impurity Total
锻造用黄铜 Brass Rod For Forging	C3712	58.0-62.0	0.25-1.2	-	-	Fe+Sn:0.8	REM	-
	C3771	57.0-61.0	1.0-2.5	-	-	Fe+Sn:1.0	REM	-
	C37700	58.0-61.0	1.5-2.5	-	0.3	-	REM	-
	C37100	58.0-62.0	0.6-1.2	-	0.15	-	REM	-
	HPb59-1	57.0-60.0	0.8-1.9	-	0.5	-	REM	1.0
	CW617N	57.0-59.0	1.6-2.5	0.05	0.3	0.3	REM	Ni 0.3 others total 0.2
复杂黄铜 Complex Brass	HAI61-4-3-1	59.0-62.0	-	3.5-4.5	0.3-1.3	-	REM	0.7
	CW713R	57.0-59.0	0.2-0.8	1.3-2.3	1.0	0.4	REM	0.3

产品名称 Product Name	牌号 Alloy Grade	化学成分 (不大于, %) Chemistry Component (No More Than,%)											
		Cu+Ag	P	Bi	Sb	As	Fe	Ni	Pb	Sn	S	Zn	O
紫铜 Copper Rod	Tu1	99.97	0.002	0.001	0.002	0.002	0.004	0.002	0.003	0.002	0.004	0.003	0.002
	Tu2	99.95	0.002	0.001	0.002	0.002	0.004	0.002	0.004	0.002	0.004	0.003	0.003
	T1	99.95	0.001	0.001	0.002	0.002	0.005	0.002	0.003	0.002	0.005	0.005	0.02
	T2	99.9	-	0.001	0.002	0.002	0.005	-	0.005	-	0.005	-	-

COMMON COPPER ALLOY TRADE MARK COMPARE TABULATION

常用铜合金牌号对照表

产品名称 Product Name	国标 GB	国际标准 ISO	美标 ASTM	日标 JIS	欧标 EN	德标 DIN	英标 BS	法标 NF
纯铜 Pure Copper	T2	Cu-FRHC	C11000	C1100	CW004A	E-Cu58	C101	Cu-a1
	T3	Cu-FRTP	C12500				C104	
磷脱氧铜 Phosphorous Deoxidize Copper	TP2	Cu-DHP	C12100	C1220	CW024A	SF-Cu	C106	Cu-b1
普通黄铜 Ordinary Brass	H70		C26000	C2600				CuZn30
	H68		C26200					CuZn33
	H65	CuZn35	C27000	C2700				CuZn36
	H63	CuZn37	C27200	C2720	CW508L			CuZn37
	H62	CuZn40	C28000	C2800	CW509L			CuZn40
铅黄铜 Lead Brass	HPb62-2		C35300	C3601				CuZn38Pb2
	HPb62-2		C35300	C3602				CuZn39Pb2
	HPb60-3		C36000	C3604				CuZn39Pb2
	HPb63-3		C34500	C3560				CuZn36Pb3
	HPb63-0.1							CuZn37Pb0.5
HPb59-1	CuZn39Pb1		C37710	C3771	CW611L			CuZn40Pb2
铅黄铜锭 Lead Brass Ingot	ZHD62		C85500					
	ZHPbD59-1							PCB1
	ZHPbD60-2	GCuZn40Pb						G-CuZn37Pb
							DB3	CuZn40